

**New**

# Series PRE proportional pressure regulator with CoilVision technology

Two sizes available: PRE1 and PRE2  
Ports G1/8 - G1/4 - G3/8 - 1/4NPTF

**COILVISION**  
TECHNOLOGY



SERIES PRE PROPORTIONAL REGULATORS



The Series PRE proportional pressure regulator is equipped with a new technology, CoilVision, which constantly monitors the operation of the solenoids in the regulator to assess their health status. All data generated by the regulator can be transmitted wirelessly, for logging, aggregation and analysis and can be viewed through the UVIX software, downloadable from the Camozzi Catalogue website.

The Series PRE is available in two sizes and in different configurations, including IO-Link connectivity. As well as the standard options with and without display, there is a version with an integral exhaust valve, which enables the system to exhaust even without a power supply.

A manifold version enables the control of several outlets with only one inlet, while a version with an additional external sensor connection enables pressure control at any point in the system.

- » "CoilVision technology" for diagnostics and health status analysis
- » Compatible with OXYGEN
- » Control parameters can be customised
- » Configuration flexibility
- » IO-Link version
- » Version with and without display
- » Manifold version
- » Version with integrated exhaust valve UL CSA certificate
- » 5 bit PreSet version for a maximum of 32 different pressures
- » Modular with Series MD

## GENERAL DATA

|  |  |  |                               |
|--|--|--|-------------------------------|
| Standard of reference                      | CE; Rosh; UL-CSA   |  |                               |
| Controlled quantity                        | Pressure   |  |                               |
| Number of ways                             | 3  |  |                               |
| Flow (Qn)                                  | PRE104 - 1100 NI/min   | PRE238 - 4600 NI/min   |                               |
| Media                                      | Filtered and non-lubricated compressed air of class 7.4.4 according to ISO 8573.1. Inert gases and oxygen        |  |                               |
| Min & max regulated pressure (bar)         | 0 - 1 bar (0-14,5 PSI)(B)<br>0,03 - 4 bar (0,43-58 PSI) (E)  | 0,05 - 10,3 bar (0,72-150 PSI)(D)<br>0,05 - 7 bar (0,72-101,5 PSI) (G) | 0,05 - 6 bar (0,72-87 PSI)(F) |
| Maximum inlet pressure                     | 2 bar (B)    5 bar (E)   | 11 bar (D); (G) ed (F)   |                               |
| External sensor (optional)                 | input signal 0-10 V DC or 4-20 mA  |  |                               |
| Resolution (% FS)                          | 0,3 (Size 1) 0,6 (Size 2)  |  |                               |
| Fluid temperature (min and max °C)         | 0 - 50 °C  |  |                               |
| Environmental temperature (min and max °C) | 0 - 50 °C  |  |                               |
| Pneumatic ports                            | G1/8 - G1/4 - G3/8 - 1/4 NPTF  |  |                               |
| Materials                                  | body: aluminium - cover: technopolymer - seals: NBR or FKM   |  |                               |
| Supply voltage (V)                         | 24 V DC  |  |                               |
| Command signal                             | 0-10V (2); 4-20 mA (4); Preset 5 bit (D); IO-Link (I)  |  |                               |
| Hysteresis (% FS)                          | 0,5% (Size 1) 0.7% (Size 2)  |  |                               |
| Power consumption                          | From a minimum of 105 to a maximum of 250 mA (see the product manual for further details)                        |  |                               |
| Type of electrical connection              | M12 5 Pin Male (IO-Link)<br>M12 8 Pin Male (Analog and PreSet)<br>M12 12 Pin Male (version with external sensor) |  |                               |
| IP protection class                        | IP65   |  |                               |
| Repeatability (% FS)                       | 0,4  |  |                               |
| Linearity (% FS)                           | 0,4  |  |                               |
| Modularity                                 | with Series MD   |  |                               |
| PRE in IO-Link version                     | V1.1 according to standard IEC 61131-9 / 61131-2   |  |                               |
| Feedback signal                            | 0-5 V DC and 4-20 mA (always present in the version with analog command signal (2) (4))                          |  |                               |

**CODING EXAMPLE**

|            |          |           |          |          |          |          |          |          |          |          |           |           |  |
|------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|--|
| <b>PRE</b> | <b>1</b> | <b>04</b> | <b>-</b> | <b>D</b> | <b>D</b> | <b>5</b> | <b>I</b> | <b>2</b> | <b>E</b> | <b>-</b> | <b>00</b> | <b>0D</b> |  |
|------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|--|

|   |   |
|---|---|
| <b>PRE</b>  | SERIES  |
| <b>1</b>  | SIZE:<br>1 = Size 1<br>2 = Size 2   |
| <b>04</b>   | CONNECTION PORT:<br>04 = G1/4<br>38 = G3/8 (only size 2)<br>M4 = G1/4 Manifold<br>14 = NPTF 1/4 (only size 1)<br>N4 = 1/4 NPTF Manifold<br>08 = G1/8 (only size 1)<br>M8 = G1/8 Manifold (only size 1)  |
| <b>D</b>  | DISPLAY:<br>E = without display<br>D = with display   |
| <b>D</b>  | WORKING PRESSURE (1 bar = 14,5 psi):<br>B = 0-1 bar<br>E = 0-4 bar<br>F = 0-6 bar<br>G = 0-7 bar<br>D = 0-10,3 bar<br>2 = external sensor 0-10 o 4-20 mA (only with control signal 2 o 4). The external sensor is not included in the controller, it must be purchased separately   |
| <b>5</b>  | VALVE FUNCTION:<br>5 = Standard, 3-way version, NC. Size 1 and 2 with port 3 and pilot exhaust not conveyable.<br>6 = Version with integrated exhaust valve (maximum working pressure B, E, F or G). Size 1 and 2 with port 3 and pilot exhaust not conveyable.<br>7 = Standard, 3-way version, NC. Size 1 and 2 with port 3 and pilot exhaust conveyable.<br>8 = Version with integrated exhaust valve (maximum working pressure B, E, F or G). Size 1 and 2 with port 3 and pilot exhaust conveyable. |
| <b>I</b>  | PILOT SUPPLY:<br>I = Internal<br>E = External   |
| <b>2</b>  | COMMAND SIGNAL:<br>2 = 0-10 V<br>4 = 4-20 mA<br>D = 5 bit Preset, 32 different pressure values<br>I = IO-Link   |
| <b>E</b>  | DIGITAL OUTPUT SIGNAL:<br>N = without digital output (only with IO-Link version)<br>E = error signal (only with input signal 2, 4, D)<br>P = pressure switch (only with input signal 2, 4, D)<br>W = window (only with input signal 2, 4, D)  |
| <b>00</b>   | CABLE LENGTH:<br>00 = No cable<br>2F = 2mt straight unshielded<br>2R = 2mt 90° cable unshielded<br>5F = 5mt straight unshielded<br>5R = 5mt 90° cable unshielded<br>2FC = 2mt straight shielded<br>2RC = 2mt 90° shielded<br>5FC = 5mt straight shielded<br>5RC = 5mt 90° shielded  |
| <b>0D</b>   | DIAGNOSTIC ACCESSORIES:<br>= without diagnosis (only with input signal 2, 4, D)<br>0D = basic diagnostics (only with input signal 2, 4, D)<br>0W = wireless diagnostics (only with input signal 2, 4, D)<br>DW = wireless diagnostics + CoilVision® (only with input signal 2, 4, D))<br>1D = IO-Link + CoilVision® diagnostics (only with IO-Link version)   |
| <b>OX1</b>  | CERTIFICATES:<br>= no certificate<br>OX1 = for use with oxygen, available in the versions "Working pressure" B; E; F; and with "Valve Function" 7; 8.   |
| Version suitable to be used with oxygen.<br>With a working pressure of Max 6 Bar, available both with internal and external pilot supply; with all other versions only with external pilot supply." |   |

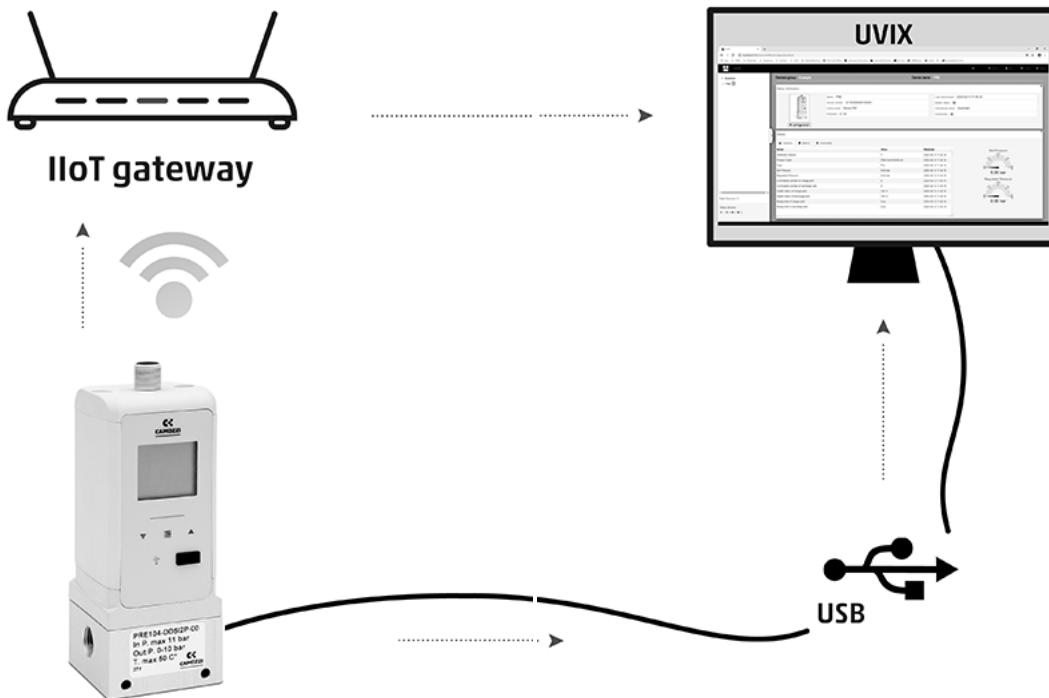
**SERIES PRE - COILVISION DIAGNOSTICS**



SERIES PRE - PROPORTIONAL REGULATORS

The CoilVision function, (optional in the Series PRE proportional regulators), has the aim to constantly monitor the operation of the individual solenoids in the regulator, this is possible thanks to specific electronics and algorithms patented by Camozzi.

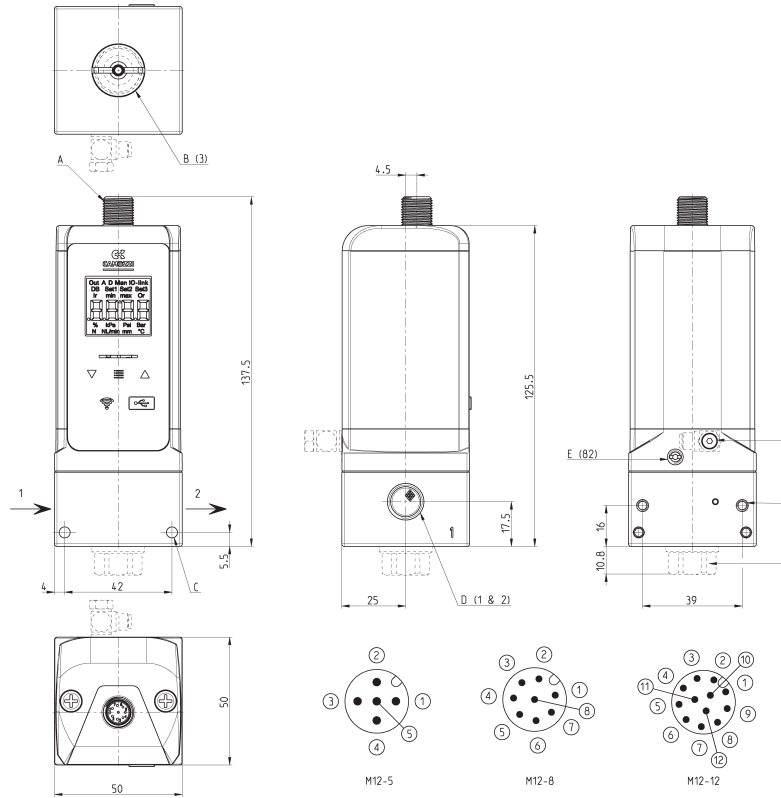
This option allows to monitor the health and operating status of the pilot solenoids, indicating any discrepancies compared to the ideal operating conditions. The information obtained allows the user to plan, in advance, any interventions on the most essential devices.



Through this function, you also have control over the internal temperature and the actual working hours of the regulator. All these indications can be read by the "UVIX" supervisor software, that can be downloaded free of charge from the Camozzi website in the products section.

Thanks to UVIX, data can be read via USB port or via wireless connection, where present. Devices equipped with an IO-Link connection can also make the data available to the PLC through the IO-Link master.

**DIMENSIONAL CHARACTERISTICS SERIES PRE SIZE 1**



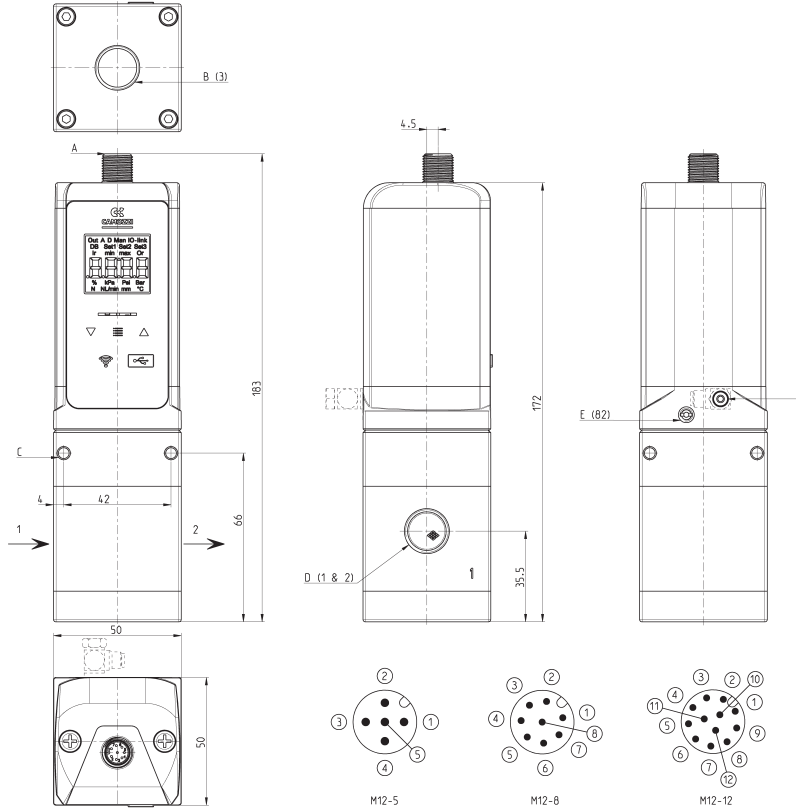
| Mod.         | A                         | B (3)             | C                 | D (1 & 2)                      | E (82)                        | F               | G                       | H                            |
|--------------|---------------------------|-------------------|-------------------|--------------------------------|-------------------------------|-----------------|-------------------------|------------------------------|
| <b>PRE 1</b> | Electrical connection M12 | Regulator exhaust | Fixing holes Ø4,3 | Ports G1/8 o G1/4 (GAS o NPTF) | Exhaust of pilot solenoids M5 | Fixing holes M4 | External servo-pilot M5 | Valve function (7 - 8) G 1/4 |

**M12 - 5 (pin male)**  
for I/O Link version

**M12 - 8 (pin male)**  
for analog version

**M12 - 12 (pin male)**  
for version with external sensor connection

**DIMENSIONAL CHARACTERISTICS SERIES PRE SIZE 2**

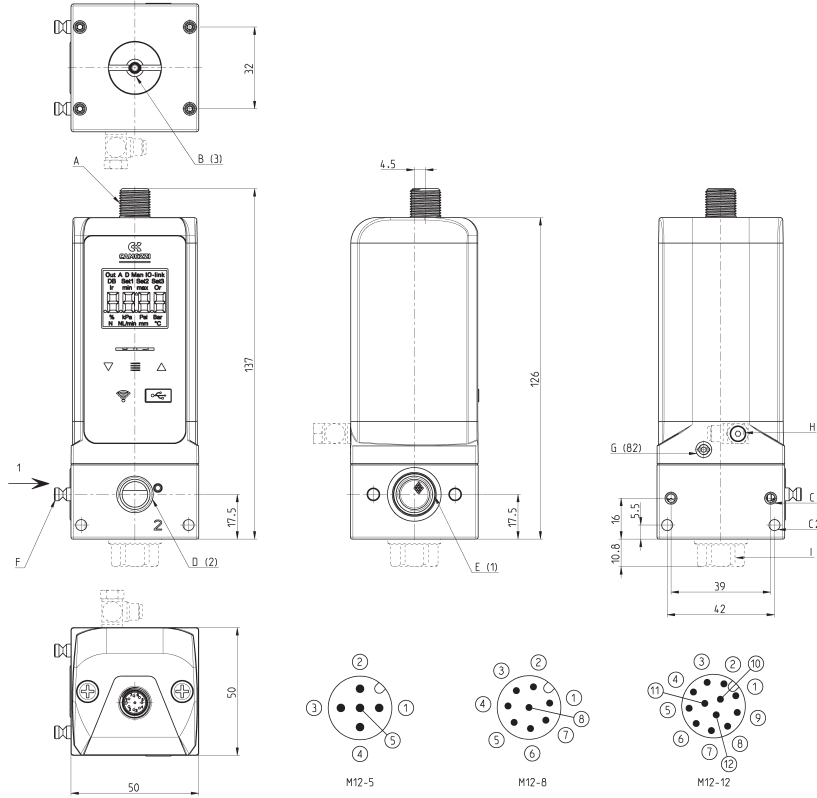


| Mod.         | A                         | B (3)                  | C                 | D (1 & 2)            | E (82)                        | F                       |
|--------------|---------------------------|------------------------|-------------------|----------------------|-------------------------------|-------------------------|
| <b>PRE 2</b> | Electrical Connection M12 | Regulator exhaust G3/8 | Fixing holes Ø4,3 | Ports G 3/8 or G 1/4 | Exhaust of pilot solenoids M5 | External servo-pilot M5 |

|  |  |  |
|--|--|--|
| M12 - 5 (pin male)<br>for I/O Link version | M12 - 8 (pin male)<br>for analog version | M12 - 12 (pin male)<br>for version with external sensor connection |
|--|--|--|

## DIMENSIONAL CHARACTERISTICS SERIES PRE SIZE 1 MANIFOLD

The fixing pins of the Manifold version are always included.



| Mod.  | A                         | B (3)                  | C                 | D (2)        | E (1)              | F              | G (82)                        | H                       |
|-------|---------------------------|------------------------|-------------------|--------------|--------------------|----------------|-------------------------------|-------------------------|
| PRE 1 | Electrical connection M12 | Regulator exhaust G3/8 | Fixing holes Ø4.3 | Outlet G 1/4 | Ports G1/8 or G1/4 | Connection pin | Exhaust of pilot solenoids M5 | External servo-pilot M5 |

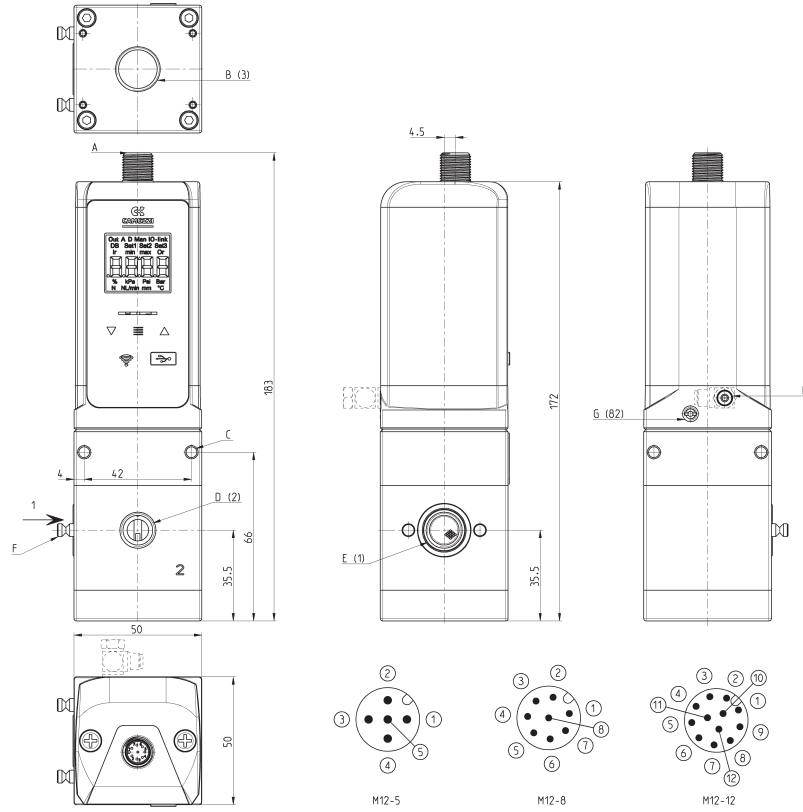
M12 - 5 (pin male)  
for I/O Link version

M12 - 8 (pin male)  
for analog version

M12 - 12 (pin male)  
for version with external sensor connection

## DIMENSIONAL CHARACTERISTICS SERIES PRE SIZE 2 MANIFOLD

The fixing pins of the Manifold version are always included.



| Mod.         | A                         | B (3)             | C               | D (2)                    | E (1)                   | F              | G (82)                        | H                       | I                            |
|--------------|---------------------------|-------------------|-----------------|--------------------------|-------------------------|----------------|-------------------------------|-------------------------|------------------------------|
| <b>PRE 2</b> | Electrical Connection M12 | Regulator exhaust | Fixing holes M3 | Outlet 1/4 (GAS or NPTF) | Ports 1/4 (GAS or NPTF) | Connection pin | Exhaust of pilot solenoids M5 | External servo-pilot M5 | Valve function (7 - 8) G 1/4 |

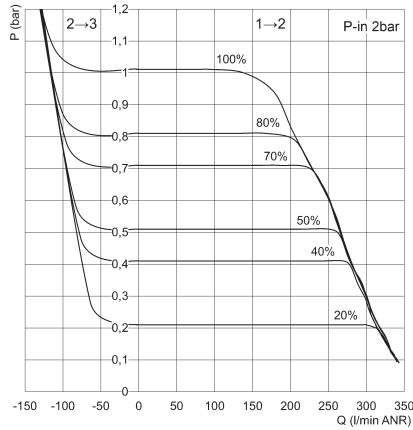
M12 - 5 (pin male)  
for I/O Link version

M12 - 8 (pin male)  
for analog version

M12 - 12 (pin male)  
for version with external sensor connection

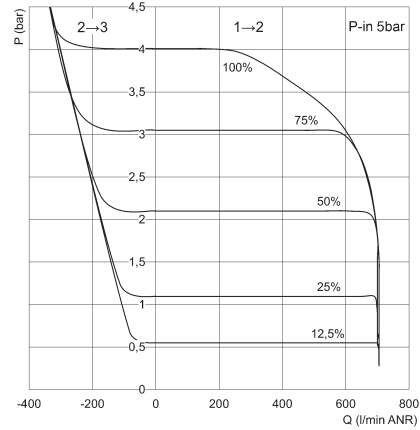
**FLOW CHARTS SIZE 1 - Standard version (1/4G)**

**Typical curve for version PRE104-xB...**



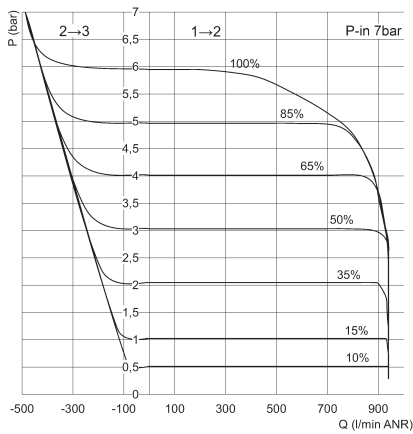
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE104-xE...**



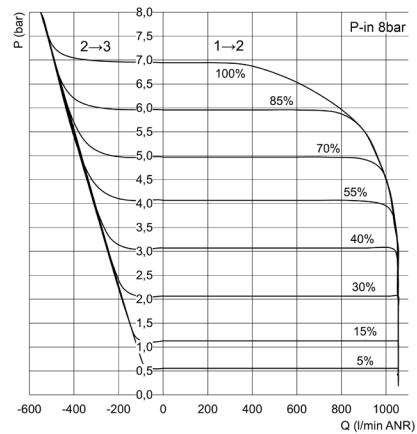
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE104-xF...**



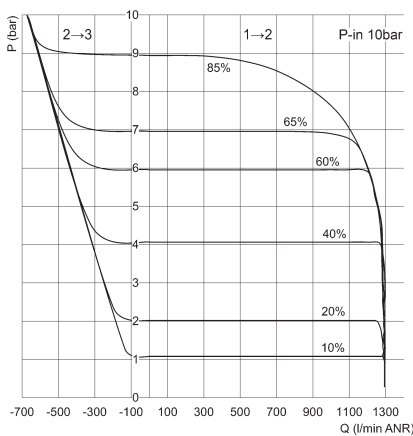
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE104-xG...**



P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE104-xD...**

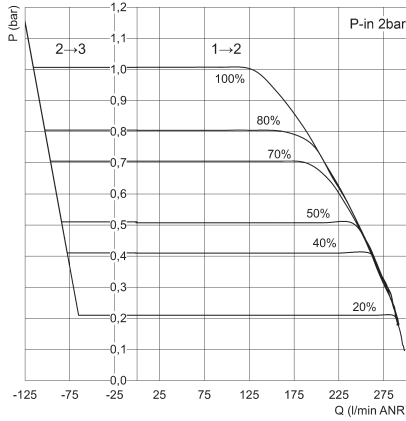


P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal



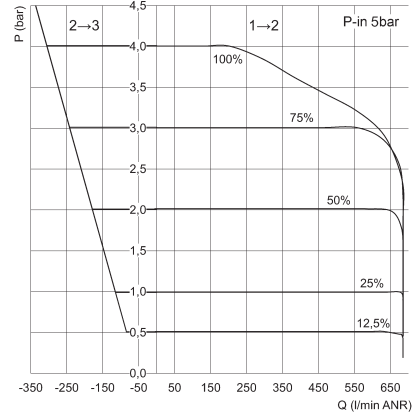
**FLOW CHARTS SIZE 1 - Manifold version (1/4G)**

**Typical curve for version PRE1M4-xB...**



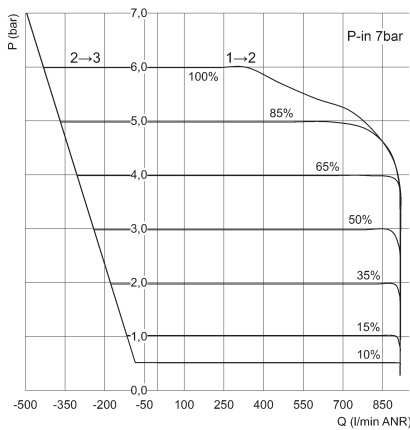
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE1M4-xE...**



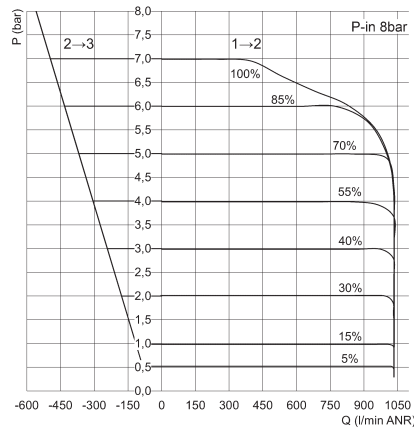
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE1M4-xF...**



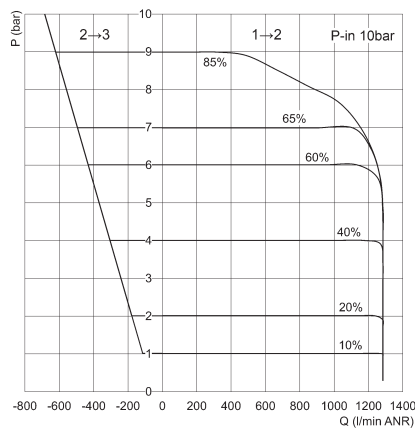
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE1M4-xG...**



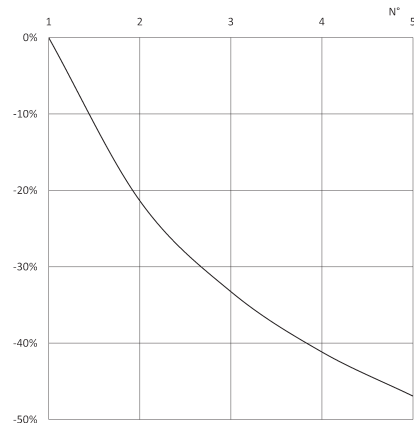
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE1M4-xD...**



P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

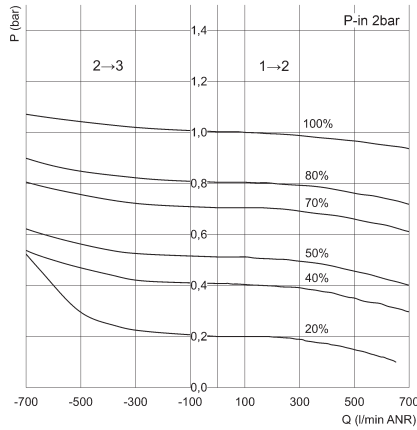
**DECAY FACTOR FOR MANIFOLD REGULATORS SIZE 1**



N° = number of regulators in manifold configuration  
D(%) = relative percentage decay of the maximum flow rate  
Note: the air inlet is only from one side, in case it should be on the right and on the left, only consider the positions as from 1 ÷ 3.

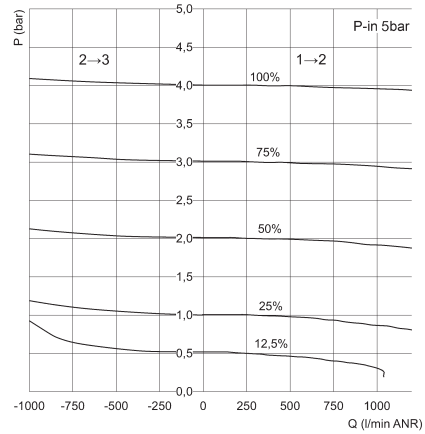
**FLOW CHARTS SIZE 2 - Standard version (1/4G)**

**Typical curve for version PRE204-xB...**



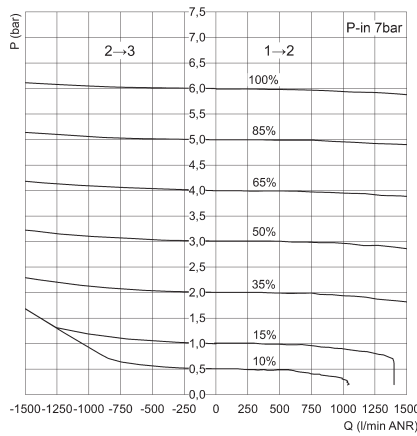
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE204-xE...**



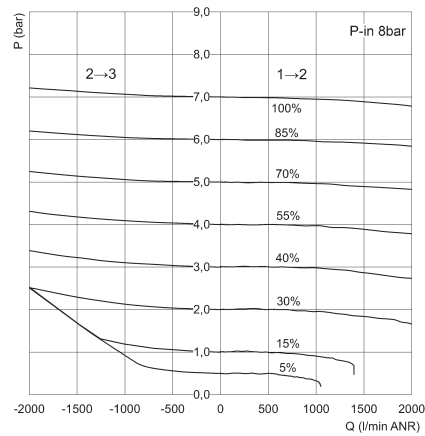
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE204-xF...**



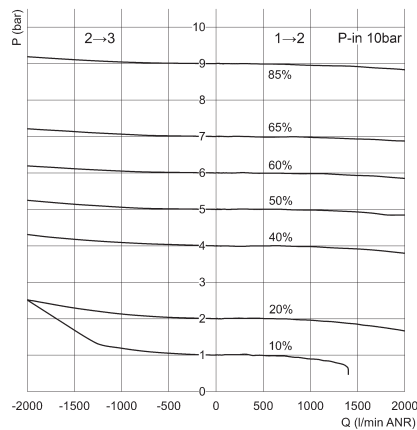
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE204-xG...**



P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

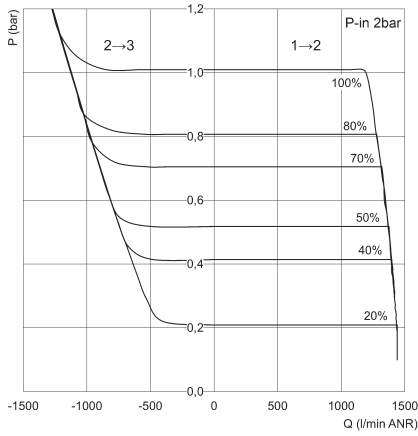
**Typical curve for version PRE204-xD...**



P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

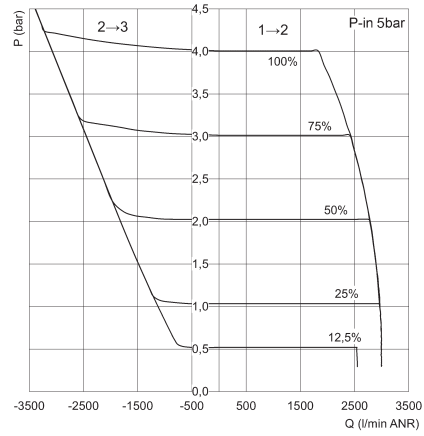
**FLOW CHARTS SIZE 2 - Standard version (3/8G)**

**Typical curve for version PRE238-xB...**



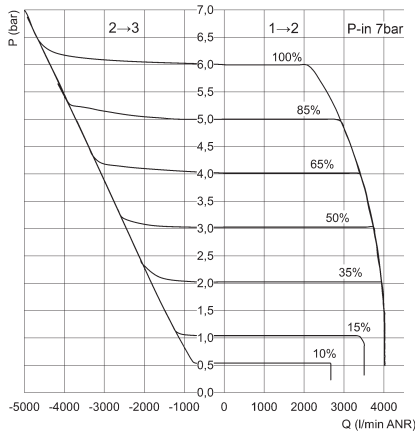
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE238-xE...**



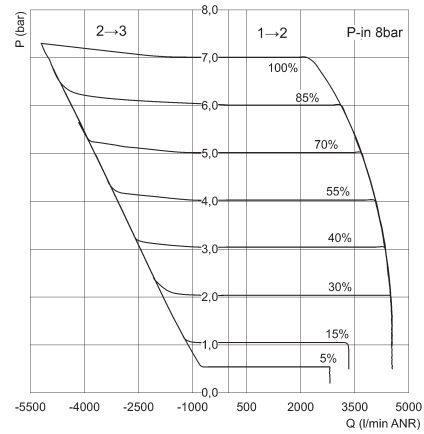
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE238-xF...**



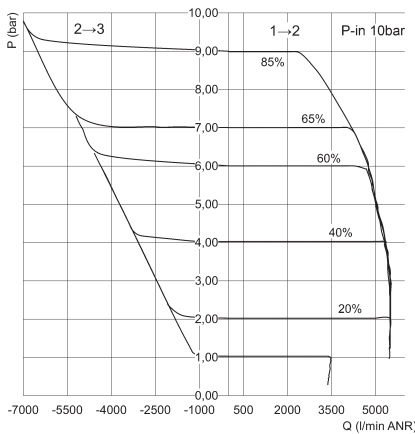
P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

**Typical curve for version PRE238-xG...**



P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

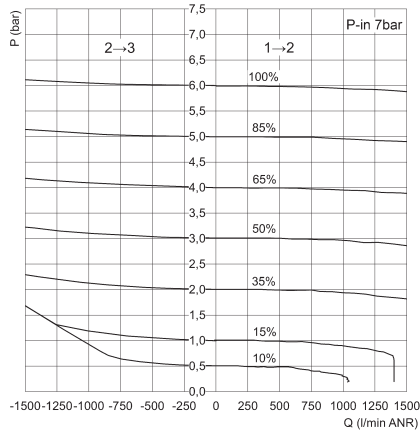
**Typical curve for version PRE238-xD..**



P = Regulated outlet pressure and exhaust pressure  
Q = Flow  
% = Percentage of the command signal

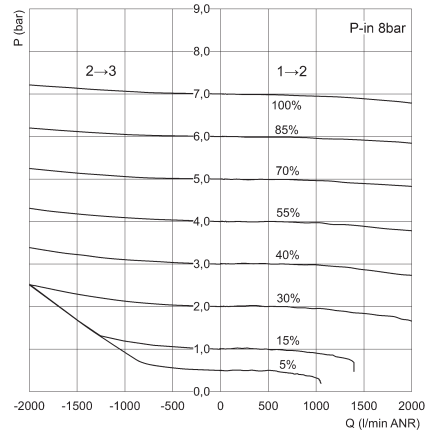
**FLOW CHARTS SIZE 2 - Manifold Version (G1/4)**

**Typical curve for version PRE2M4-xF...**



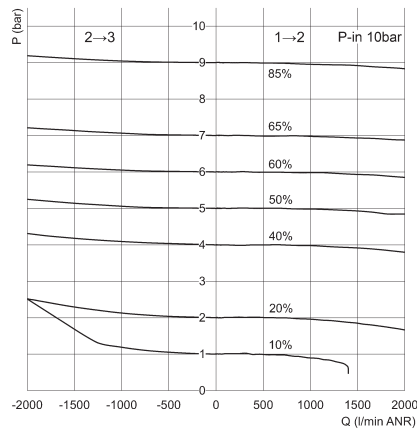
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE2M4-xG...**



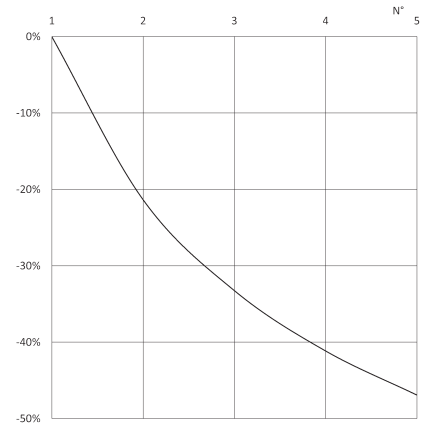
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**Typical curve for version PRE2M4-xD...**



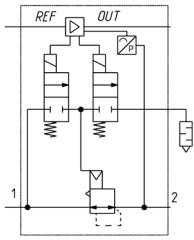
P = Regulated outlet pressure and exhaust pressure  
 Q = Flow  
 % = Percentage of the command signal

**DECAY FACTOR FOR MANIFOLD REGULATORS SIZE 2**



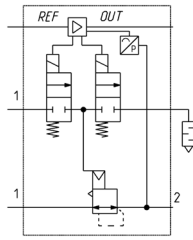
N° = number of regulators in manifold configuration  
 % = % of decrease in flow rate compared to the maximum flow rate  
 Note: the air inlet is only from one side, in case it should be on the right and on the left, only consider the positions as from 1 ÷ 3.

**PNEUMATIC SYMBOLS OF SERIES PRE PROPORTIONAL PRESSURE REGULATOR, size 1 and 2**



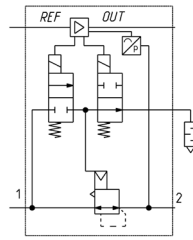
RE01

Version with internal servo-pilot supply, two pilot valves 2/2 NC.



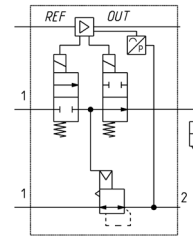
RE02

Version with external servo-pilot supply and two pilot valves 2/2 NC.



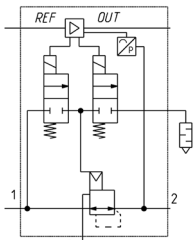
RE03

Version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO (exhaust)



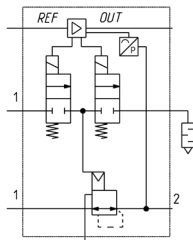
RE04

Version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO (exhaust)



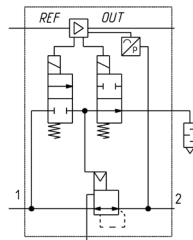
RE05

Version with internal servo-pilot supply and two pilot valves 2/2 NC, exhaust conveyable.



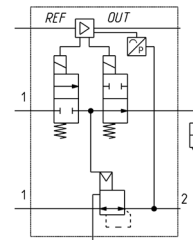
RE06

Version with external servo-pilot supply and two pilot valves 2/2 NC, exhaust conveyable.



RE07

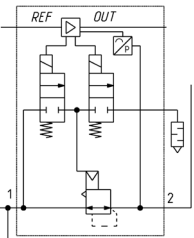
Version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.



RE08

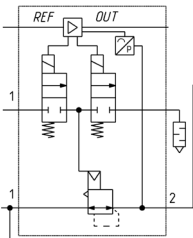
Version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

**PNEUMATIC SYMBOLS OF SERIES PRE PROPORTIONAL PRESSURE REGULATOR, manifold version size 1 and 2**



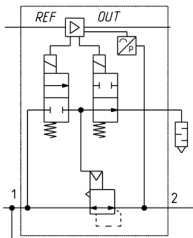
RE09

Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC.



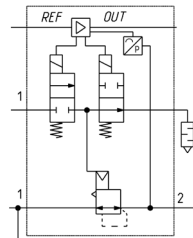
RE10

Manifold version with external servo-pilot supply and two pilot valves 2/2 NC.



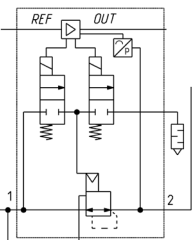
RE11

Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust.



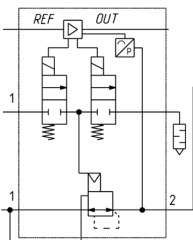
RE12

Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust.



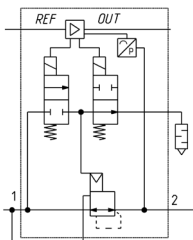
RE13

Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable.



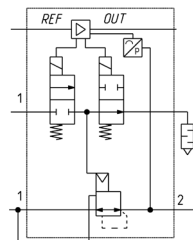
RE14

Manifold version with external servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable.



RE15

Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

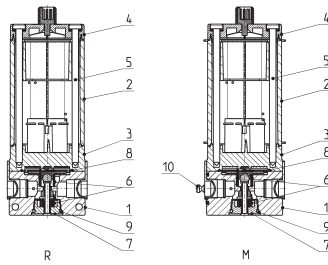


RE16

Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

### SIZE 1 - MATERIALS

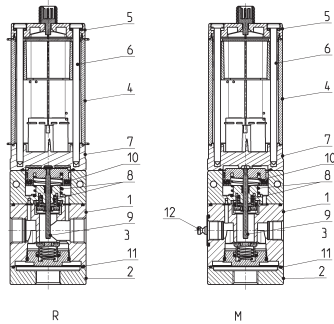
R = Proportional regulator  
 M = Proportional regulator - manifold version



| PARTS                         | MATERIALS, standard version               | MATERIALS, oxygen version                 |
|-------------------------------|---|---|
| 1 = body                      | Anodised aluminium                        | Anodised aluminium                        |
| 2 = cover                     | PA6 CM 30%                                | PA6 CM 30%                                |
| 3 = valve body                | PARA GF50%                                | PARA GF50%                                |
| 4 = cap                       | PA6 CM 30%                                | PA6 CM 30%                                |
| 5 = screws                    | stainless steel                           | stainless steel                           |
| 6 = springs                   | stainless steel                           | stainless steel                           |
| 7 = plug                      | nickel-plated brass                       | nickel-plated brass                       |
| 8 = diaphragm                 | NBR                                       | FKM                                       |
| 9 = seals and O-Ring          | NBR                                       | FKM                                       |
| 10 = pin for manifold version | stainless steel only for manifold version | stainless steel only for manifold version |

### SIZE 2 - MATERIALS

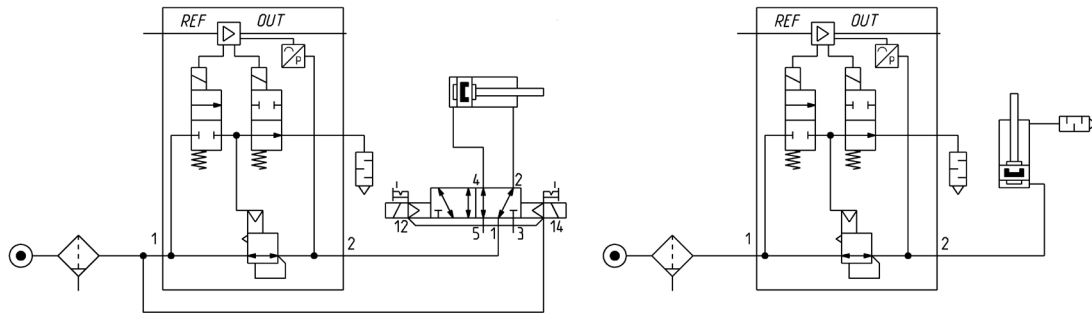
R = Proportional regulator  
 M = Proportional regulator - manifold version



| PARTS                         | MATERIALS, standard version               | MATERIALS, oxygen version                 |
|-------------------------------|---|---|
| 1 = body                      | Anodised aluminium                        | Anodised aluminium                        |
| 2 = end cover                 | Anodised aluminium                        | Anodised aluminium                        |
| 3 = plug                      | brass                                     | brass                                     |
| 4 = cover                     | PA6 CM 30%                                | PA6 CM 30%                                |
| 5 = cap                       | PA6 CM 30%                                | PA6 CM 30%                                |
| 6 = screws                    | stainless steel                           | stainless steel                           |
| 7 = valve body                | PARA GF50%                                | PARA GF50%                                |
| 8 = springs                   | stainless steel                           | stainless steel                           |
| 9 = piston rod                | stainless steel                           | stainless steel                           |
| 10 = piston seal              | NBR                                       | NBR                                       |
| 11 = seals and O-Ring         | NBR                                       | FKM                                       |
| 12 = pin for manifold version | stainless steel only for manifold version | stainless steel only for manifold version |

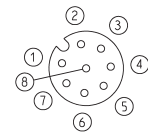
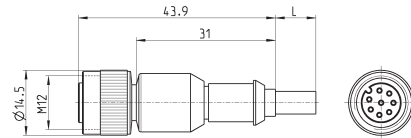
## PNEUMATIC DIAGRAM FOR INSTALLATION

PRE version with integrated exhaust valve.  
We suggest to make a pneumatic diagram in order to create a pneumatic circuit that allows to discharge the regulated pressure in absence of power supply.



### Cable with M12 8 pin straight connector, female

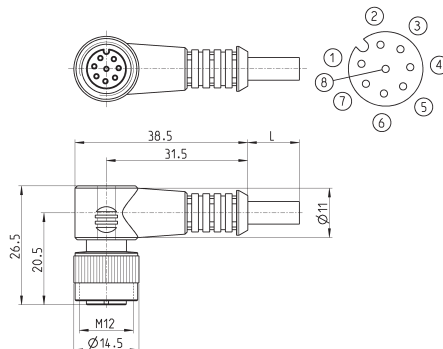
For power supply, analog command signal and PreSet



| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LF08HB-H200 | 2                | Unshielded |
| CS-LF08HB-H500 | 5                | Unshielded |
| CS-LF08HC-G200 | 2                | Shielded   |
| CS-LF08HC-G500 | 5                | Shielded   |

### Cable with M12 8 pin connector, 90°, female

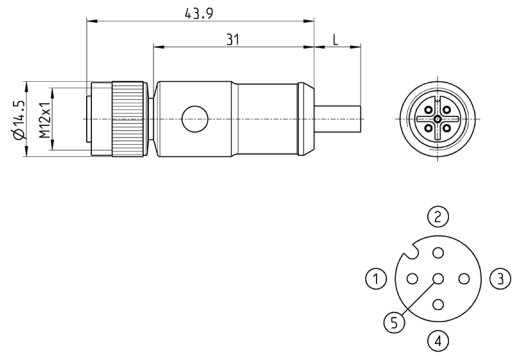
For power supply, analog command signal and PreSet



| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LR08HB-H200 | 2                | Unshielded |
| CS-LR08HB-H500 | 5                | Unshielded |
| CS-LR08HC-G200 | 2                | Shielded   |
| CS-LR08HC-G500 | 5                | Shielded   |

### Cable with M12 5 pin straight connector, female

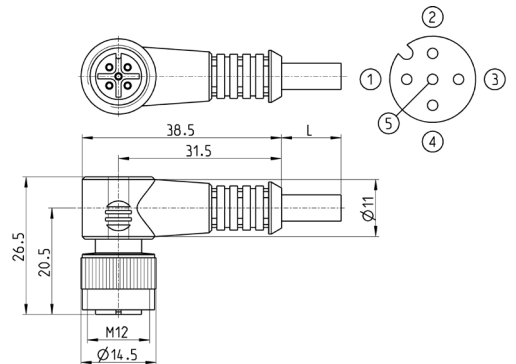
For power supply and IO-Link command signal



| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LF05HB-C200 | 2                | Unshielded |
| CS-LF05HB-C500 | 5                | Unshielded |
| CS-LF05HB-D200 | 2                | Shielded   |
| CS-LF05HB-D500 | 5                | Shielded   |

### Cable with M12 5 pin connector, 90°, female

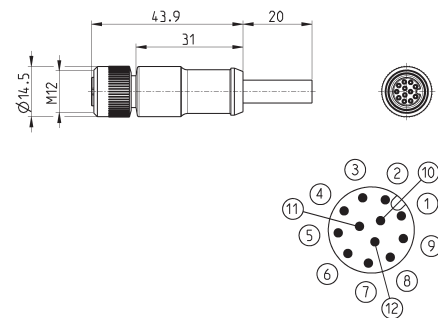
For power supply and IO-Link command signal



| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LR05HB-C200 | 2                | Unshielded |
| CS-LR05HB-C500 | 5                | Unshielded |
| CS-LR05HB-D200 | 2                | Shielded   |
| CS-LR05HB-D500 | 5                | Shielded   |

### Cable with M12, 12 pin connector, straight, female

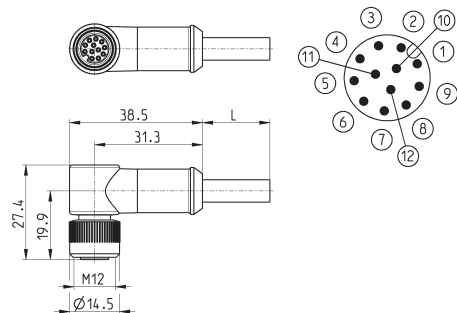
For power supply and analog command signal with external sensor



| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LF12HC-C200 | 2                | Unshielded |
| CS-LF12HC-C500 | 5                | Unshielded |
| CS-LF12HC-D200 | 2                | Shielded   |
| CS-LF12HC-D500 | 5                | Shielded   |

### Cable with M12 12 pin connector, 90°, female

For power supply and analog command signal with external sensor



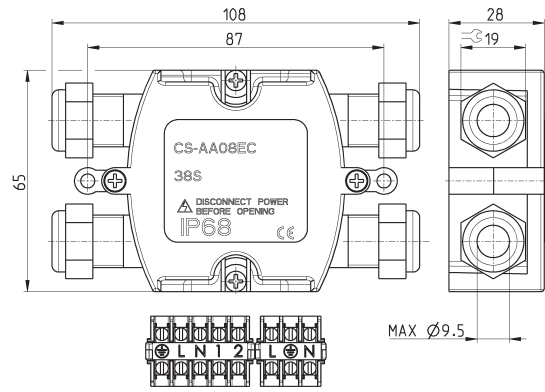
| Mod.           | Cable length (m) | Shielding  |
|----------------|------------------|------------|
| CS-LR12HC-C200 | 2                | Unshielded |
| CS-LR12HC-C500 | 5                | Unshielded |
| CS-LR12HC-D200 | 2                | Shielded   |
| CS-LR12HC-D500 | 5                | Shielded   |



### Electrical tee box Mod. CS-AA08EC



To connect the external transducer, power supply and command signal



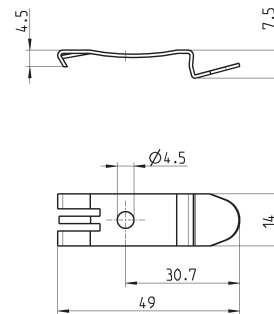
Mod.  
**CS-AA08EC**

### Mounting brackets for DIN-rail PRE



DIN EN 50022 (7,5mm x 35mm - width 1)

Supplied with:  
2x mounting brackets  
2x screws M4x6 UNI 5931  
2x nuts

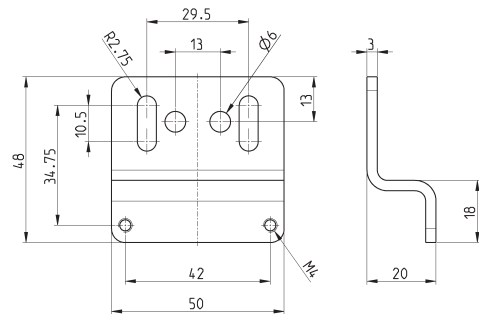


Mod.  
**PCF-EN531**

### Rear bracket PRE



The kit includes  
1x zinc-plated bracket  
2x M4x55 white zinc-plated screws

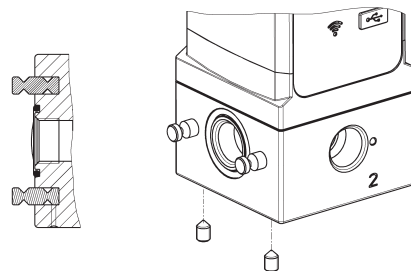


Mod.  
**PRE-ST**

### Fixing kit for manifold version: PRE



The kit includes:  
2x shaped steel pins  
4x steel grub screws  
1x O-Ring



Mod.  
**PRE-M-PIN-1-2**

